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(71) Applicant (for all designated States except US): **RISØ
NATIONAL LABORATORY [DK/DK];** Frederiks-
borgvej 399, P.O. Box 49, DK-4000 Roskilde (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GLÜCKSTAD, Jes-
per [DK/DK];** Dalgas Have 36, 4. sal tv., DK-2000 Fred-
eriksberg (DK).

(74) Agent: **ALBIHNS A/S; H.C. Andersens Boulevard 49,
DK-1553 Copenhagen_V (DK).**

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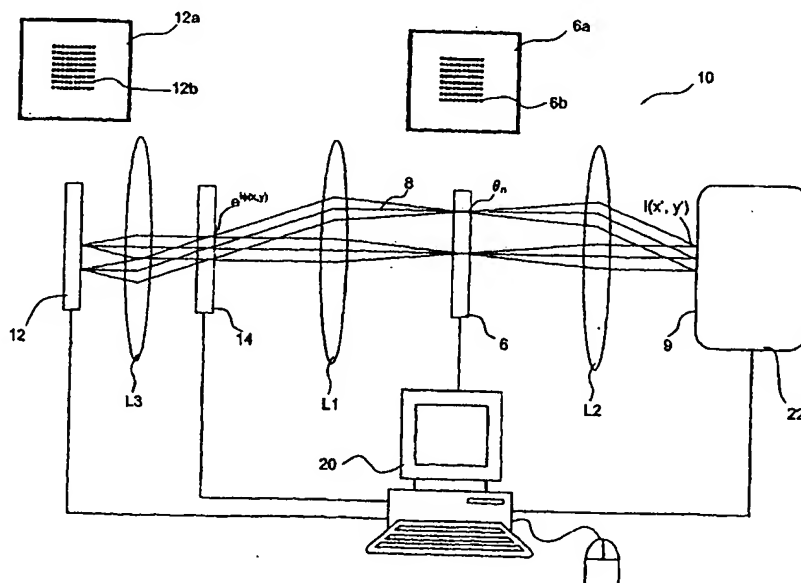
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ning of each regular issue of the PCT Gazette.

(54) Title: **GENERATION OF A DESIRED WAVEFRONT WITH A PLURALITY OF PHASE CONTRAST FILTERS**



(57) Abstract: The present invention relates to a method and a system for synthesizing an intensity pattern based on generalized phase contrast imaging. The phase filter contains a plurality of phase shifting regions that is matched to the layout of a light source array, each of the regions being positioned at the zero-order diffraction region of a respective element of the array. Further, the shape of each phase shifting region may match the shape of the zero-order diffraction region of the respective element. Thus, the energy of the electromagnetic fields of the system may be distributed over a large area compared to the area of a zero-order diffraction region of a single plane electromagnetic field of a known phase contrast imaging system.

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WO 2004/113993 A1